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AGRICULTURAL MEMORANDUM No. 380

Gramineae Pollen in London

L P Smith

2. Pattern of Release

The release pattern can be divided into four phases:

Phase 1. Pre-start. From May 1 to theoretical start in June as defined in Ag Mem No. 379.
(during this phase daily counts of 50 or 60 are rarely reached)

Phase 2. Maximum. From start to end of June.
(during this phase the daily count can exceed 300)

Phase 3. Post-Maximum. The month of July
(during this phase 300 is not exceeded)

Phase 4. Terminal. The month of August
(during this phase 50 is rarely exceeded)

Pattern 1961-1970

Phase 1

	Mean Daily Count (no. of occasions)						
Year	0	10	20	30	40	50 or more	Total Count
1961	19	7	6	0	2	0	270
1962	30	4	4	1	0	0	150
1963	31	6	0	0	0	0	60
1964	15	10	3	1	3	2	420
1965	22	9	2	1	0	1	210
1966	14	11	7	2	3	0	430
1967	28	9	1	0	0	0	110
1968	31	4	2	1	0	1	160
1969	24	5	3	2	0	2	290
1970	29	3	1	1	2	0	160
Totals	243	68	29	9	10	6	
Percentage	66.7	18.6	7.9	2.5	2.7	1.6	

/Phase 2

Phase 2. Using a classification:

LOW	0-40
MODERATE	50-140
HIGH	150-290
EXTREME	300 or above

Number of occasions

Year	LOW	MODERATE	HIGH	EXTREME	Total Count
1961	3	10	11	3	4600
1962	6	12	4	0	2140
1963	11	8	4	1	1960
1964	4	9	6	8	5670
1965	10	8	7	1	2800
1966	3	13	5	3	3040
1967	10	9	4	0	1730
1968	8	10	3	1	1900
1969	8	13	4	0	1950
1970	9	12	4	0	1950
Total	72	104	52	17	
Percentage	29.4	42.5	21.2	6.9	
Phase 3 (July)					
1961	21	10	0	0	1190
1962	20	8	3	0	1580
1963	22	9	0	0	950
1964	16	11	4	0	2120
1965	22	9	0	0	910
1966	22	7	2	0	1330
1967	20	11	0	0	1330
1968	27	4	0	0	630
1969	18	12	1	0	1640
1970	25	6	0	0	740
Total	213	87	10	0	
Percentage	68.8	28.0	3.2	0	

/Phase 4

Phase 4 (August)

	Mean Daily Count (no. of occasions)						
Year	0	10	20	30	40	50 or above	Total
1961	13	11	4	0	2	1	320
1962	16	8	5	0	2	0	260
1963	22	7	1	1	0	0	120
1964	15	10	3	2	0	1	270
1965	17	6	4	4	0	0	260
1966	19	5	5	1	1	0	220
1967	15	10	4	1	0	1	280
1968	26	4	1	0	0	0	60
1969	22	8	1	0	0	0	100
1970	23	7	1	0	0	0	90

Highest Daily Counts

Date	June	July
1 or 2	30	220
3 or 4	80	130
5 or 6	210	100
7 or 8	350	190
9 or 10	510	150
11 or 12	380	110
13 or 14	320	290
15 or 16	720	100
17 or 18	420	90
19 or 20	260	100
21 or 22	260	110
23 or 24	290	70
25 or 26	300	90
27 or 28	410	40
29 or 30	340	40

Any comments or suggestions on this paper should be referred to the author.

Meteorological Office
Bracknell

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